

Applicant : Silviu Itescu  
U.S. Serial No.: 10/693,480  
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**In the Specification**

Please replace the paragraph starting on page 16, line 28 with the following rewritten paragraph:

Figure 31 ~~30~~: Intracardiac administration of SDF-1 augments CSF-induced neovascularization and regeneration following acute ischemia. The left hand panel shows that the combination of subcutaneous G-CSF and intracardiac SDF-1 administration results in slightly higher numbers of large diameter blood vessels as defined by having greater than 6 nuclei per high power field. The right hand panel shows similar ratios are observed with the number of cardiomyocytes entering cell cycle as defined by KI67 and troponin I co-staining at two weeks post myocardial infarction.

Please replace the paragraph starting on page 17, line 5 with the following rewritten paragraph:

Figure 32 ~~31~~: Intracardiac administration of SDF-1 augments CSF-induced functional myocardial recovery following myocardial ischemia. The combination of subcutaneous G-CSF and intracardiac SDF-1 administration results in over a 35% improvement in ejection fraction as defined by M-mode echocardiography at two weeks post myocardial infarction. In contrast animals receiving saline or only of subcutaneous GM-CSF had an additional regression in cardiac functional capacity.

Please replace the paragraph starting on page 17, line 15 with the following rewritten paragraph:

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Figure 30 32: SDF-1 protects rat neonatal cardiomyocytes against H<sub>2</sub>O<sub>2</sub>-induced apoptosis in a dose dependent manner. The left hand panel demonstrates the protective effect of SDF-1 using the highest concentration (10 $\mu$ M). The right hand panel demonstrates at the highest concentration of H<sub>2</sub>O<sub>2</sub> the protective effects of SDF-1 on cardiomyocyte apoptotic death following H<sub>2</sub>O<sub>2</sub> stimulation is dose dependent with 10 $\mu$ M having maximal effects. Medium = no SDF.